St. Xavier's College (Autonomous), Kolkata M. Sc (Computer Science) CMSM4356 (Group B) – Al Lab Continuous Internal Assessment

Date: 30/09/2021

Marks: 10 Duration: 30 minutes

Answer question 1 and any one from the remaining two.

- 1. Write a Prolog program to represent the following facts and clauses:
 - a) Marcus was a man.
 - b) Marcus was a Pompeian.
 - c) Marcus was born in 40 A.D.
 - d) All men are mortal.
 - e) All Pompeians died when the volcano erupted in 79 A.D.
 - f) No mortal lives longer than 150 years.
 - g) It is now 2021.
 - h) Alive means not dead.
 - i) If someone dies then he is dead at all later times.

[6]

2. Write a Prolog program to find whether a list is a palindrome or not.

[4]

3. Write a Prolog program to divide a given integer list into two sublists depending on an input, N given by the user where all numbers less than N should be put in list - L1 and rest in list-L2. [4]